IN THE CLAIMS

Please amend the claims as shown below. This listing of claims will replace all prior versions and listings of claims in the Application.

- 17. (Currently Amended) An oscillator system for generating timing signals, comprising:
 - a first oscillator containing gain and non-linear elements;
 - a second oscillator containing gain and non-linear elements;
- a first coupler for <u>coupling</u> receiving a first signal from the first oscillator <u>accessed at a point between</u> after the output of the gain element of the first oscillator <u>and but prior to</u> the input of the non-linear element of the first oscillator, <u>to said</u> <u>second oscillator at a point between</u> and providing the first signal after the output of the gain element of the second oscillator <u>and but prior to</u> the input of the non-linear element of the second oscillator; and

a second coupler for <u>coupling</u> receiving a second signal from the second oscillator <u>accessed at a point between</u> after the output of the gain element of the second oscillator <u>and but prior to</u> the input of the non-linear element of the second oscillator, to said first oscillator at a point between and providing the second signal after the output of the gain element of the first oscillator <u>and but prior to</u> the input of the non-linear element of the first oscillator.

- 18. (Original) The oscillator system of claim 17 wherein the first oscillator further comprises:
 - a first center-tapped transmission line;
- a second center-tapped transmission line, operated out of phase with the first transmission line;
 - a first oscillating circuit connected to one end of the first transmission Line and

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one end of the second transmission line; and

a second oscillating circuit connected to the opposite end of the first transmission line and the opposite end of the second transmission line.

- 19. (Original) The oscillator system of claim 18 wherein the second oscillator further comprises:
 - a first center-tapped transmission line;
- a second center-tapped transmission line, operated out of phase with the first transmission line;

a first oscillating circuit connected to one end of the first transmission line and one end of the second transmission line; and

a second oscillating circuit connected to the opposite end of the first transmission line and the opposite end of the second transmission line.

- 20. (Original) The oscillator system of claim 18 wherein the first oscillating circuit further comprises a negative resistance amplifier.
- 21. (Original) The oscillator system of claim 20 wherein the second oscillating circuit further comprises a negative resistance amplifier.
- 22. (Currently Amended) The oscillator system of claim 18 wherein the first oscillating circuit comprises:
- a first coupling network, whose input is coupled to the second transmission line;
- a second coupling network, whose input is coupled to the first transmission line;
 - a first pulse-forming network, whose input is coupled to the first coupling

network and whose output is coupled to the first transmission line; and

a second pulse-forming network, whose input is coupled to the second coupling network and whose output is coupled to the second transmission line.

23. (Currently Amended) The oscillator system of claim 22 wherein the second oscillating circuit comprises:

a first coupling network, whose input is coupled to the second transmission line;

a second coupling network, whose input is coupled to the first transmission line;

a first pulse-forming network, whose input is coupled to the first coupling network and whose output is coupled to the first transmission line; and

a second pulse-forming network, whose input is coupled to the second coupling network and whose output is coupled to the second transmission line.

- 24. (Original) The oscillator system of claim 17 wherein the first coupler further comprises a capacitive summing network.
- 25. (Original) The oscillator system of claim 17 wherein the first coupler further comprises a resistive summing network.
- 26. (Currently Amended) A method of generating high frequency oscillations, comprising the steps of:

producing first oscillations in a first oscillator containing first gain and non-linear elements;

producing second oscillations in a second oscillator containing second gain and non-linear elements;

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producing a phase shift in the first oscillator by coupling the second oscillations, said second oscillations derived from a point between said second gain and said second non-linear elements, to said first oscillator at a point between the output of the gain element of the first oscillator and the input of the non-linear element of the first oscillator; and received after the second gain element prior to the second non-linear element to the first oscillator after the first gain element but prior to the first non-linear element;

producing a phase shift in the second oscillator by coupling the first oscillations, said first oscillations derived from a point between said first gain and said first non-linear elements, to said second oscillator at a point between the output of the gain element of the second oscillator and the input of the non-linear element of the second oscillator, received after the first gain element but prior to the first non-linear element to the second oscillator after the second gain element but prior to the second non-linear element.

27. (Currently Amended) The method of claim 26 wherein <u>said</u> the step of producing first oscillations further comprises:

operating a first center-tapped transmission line out of phase with a second transmission line;

providing a first oscillation signal connected to one end of the first transmission line and one end of the second transmission line; and

providing a second oscillation signal connected to the opposite end of the first transmission line and the opposite end of the second transmission line.

28. (Currently Amended) The method of claim 27, further comprising the steps of:

tuning the first transmission line with a first plurality of capacitors; and

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tuning the second transmission line with a second plurality of capacitors.

29. (Currently Amended) The method of claim 28, wherein <u>said the steps</u> of tuning the first and second transmission lines further comprise tuning with variable capacitors.

- 30. (Currently Amended) The method of claim 27 wherein <u>said</u> the step of providing the first oscillation signal further comprises obtaining the first oscillation signal from a negative resistance amplifier.
- 31. (Currently Amended) The method of claim 30 wherein <u>said step of</u> providing the second oscillation signal- further comprises obtaining the second oscillation signal from a negative resistance amplifier.
- 32. (Currently Amended) The method of claim 27 wherein <u>said</u> the step of providing the first oscillation signal further comprises the steps of:

coupling the first transmission line to a first pulse forming network; coupling the second transmission line to a second pulse forming network; coupling the output pulses from the first pulse forming network to the second transmission line;

coupling the output pulses from the second pulse forming network to the first transmission line.

33. (Currently Amended) The method of claim 32 wherein said the step of providing the second oscillation signal further comprises the steps of:

coupling the first transmission line to a first pulse forming network; coupling the second transmission line to a second pulse forming network;

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coupling the output pulses from the first pulse forming network to the second transmission line;

coupling the output pulses from the second pulse forming network to the first transmission line.